

Figure 1 displays 12 horizontal bar charts showing the relative expression of various genes in the liver of rainbow trout after 24 hours of treatment with 100  $\mu\text{g/kg}$  of 17 $\beta$ -estradiol. The genes are: CYP1A, CYP1B, CYP19, CYP17, CYP11B, CYP11A, CYP11, CYP10, CYP9, CYP8, CYP7, and CYP6. Each chart compares the expression level of the gene in the treated group (black bar) to the control group (white bar). The y-axis represents the relative expression level, with values ranging from 0.0 to 1.0. The x-axis represents the gene name. The control group is set to 1.0. The treated group shows varying levels of induction, with CYP1A and CYP1B showing the highest induction levels, reaching approximately 0.8 and 0.7 respectively. CYP19 and CYP17 show moderate induction, while CYP11B, CYP11A, CYP11, CYP10, CYP9, CYP8, CYP7, and CYP6 show lower induction levels, ranging from approximately 0.2 to 0.6.

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## ABSTRACT

A system for exchanging transaction between computers that enables software with different data formats to exchange data. The system maintains a profile of all the parties to the transaction which includes the data formats utilized by each party. Upon initiation of a transaction, the system generates encryption keys unique to the session and all the data transfers are encoded with the newly generated encryption keys.

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